



Early Journal Content on JSTOR, Free to Anyone in the World

This article is one of nearly 500,000 scholarly works digitized and made freely available to everyone in the world by JSTOR.

Known as the Early Journal Content, this set of works include research articles, news, letters, and other writings published in more than 200 of the oldest leading academic journals. The works date from the mid-seventeenth to the early twentieth centuries.

We encourage people to read and share the Early Journal Content openly and to tell others that this resource exists. People may post this content online or redistribute in any way for non-commercial purposes.

Read more about Early Journal Content at <http://about.jstor.org/participate-jstor/individuals/early-journal-content>.

JSTOR is a digital library of academic journals, books, and primary source objects. JSTOR helps people discover, use, and build upon a wide range of content through a powerful research and teaching platform, and preserves this content for future generations. JSTOR is part of ITHAKA, a not-for-profit organization that also includes Ithaka S+R and Portico. For more information about JSTOR, please contact support@jstor.org.

VOLUME XX

SEPTEMBER, 1913

NUMBER 7

THE AMERICAN MATHEMATICAL MONTHLY

FOUNDED BY BENJAMIN F. FINKEL

A JOURNAL FOR TEACHERS OF MATHEMATICS IN THE
COLLEGIATE AND ADVANCED SECONDARY FIELDS

PUBLISHED WITH THE COÖPERATION OF
THE UNIVERSITIES OF CHICAGO, ILLINOIS, INDIANA, IOWA,
KANSAS, MICHIGAN, MINNESOTA, MISSOURI, NEBRASKA,
NORTHWESTERN UNIVERSITY,
COLORADO COLLEGE AND OBERLIN COLLEGE

CONTROLLED AND EDITED BY

C. H. ASHTON	W. DEW. CAIRNS	B. F. FINKEL
R. P. BAKER	FLORIAN CAJORI	E. R. HEDRICK
W. C. BRENKE	R. D. CARMICHAEL	L. C. KARPINSKI
W. H. BUSSEY	D. R. CURTISS	G. A. MILLER
	H. E. SLAUGHT	

EDITORIAL COMMITTEE: H. E. SLAUGHT, G. A. MILLER, E. R. HEDRICK

EXECUTIVE COMMITTEE: H. E. SLAUGHT, W. C. BRENKE, R. D. CARMICHAEL

OFFICIAL CORRESPONDENCE should be addressed to the MANAGING EDITOR,
H. E. SLAUGHT, 5548 Monroe Avenue, Chicago, Ill.

PUBLISHED MONTHLY EXCEPT IN JULY AND AUGUST

LANCASTER, PA., AND CHICAGO

Entered at the Post Office at Lancaster, Pa., as Second Class Matter

CONTENTS

History of the Exponential and Logarithmic Concepts.

By FLORIAN CAJORI 205-210

The Significance of the Weierstrass Theorem. By E. R. HEDRICK... 211-213

On the Impossibility of Certain Diophantine Equations and Systems of
Equations. By R. D. CARMICHAEL..... 213-221

PROBLEMS AND QUESTIONS. B. F. FINKEL, Chairman..... 221-228

BOOK REVIEWS. W. H. BUSSEY, Chairman..... 229-231

NOTES AND NEWS. FLORIAN CAJORI, Chairman 231-234

FOR COLLEGE CLASSES

Fine's College Algebra

Explaining the processes and principles of algebra, and its methods of investigation and demonstration. Constant use is made of the graphical method of illustration.

Granville's Plane Trigonometry, Spherical Trigonometry and Logarithmic Tables

Presenting a unique treatment of the solution of triangles and also of spherical trigonometry. The important applications of spherical trigonometry to geodesy, astronomy, and navigation are set forth clearly and simply.

Granville and Smith's Elements of the Differential and Integral Calculus (Revised Edition)

This new edition of the standard book is thoroughly modern and teachable — adapted to the needs of colleges and engineering schools. It includes a large number of new examples and problems, and biographical sketches of the leading men connected with the history of the Calculus.

GINN AND COMPANY Publishers

Boston

New York

Chicago

London

Atlanta

Dallas

Columbus

San Francisco